

Appl. No. 10/549,528  
Response dated October 19, 2009  
Reply to Advisory Action dated July 21, 2009

PATENT

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

- 1    **1.**     (Previously presented) A method of forming a peptide conjugate comprising a covalent  
2 linkage between a modifying group and a glycosylated or non-glycosylated peptide, wherein said  
3 modifying group is conjugated to the peptide via a glycosyl linking group interposed between  
4 and covalently linked to both said peptide and said modifying group, said method comprising:  
5         a. contacting a cell with a modified sugar comprising a sialic acid moiety  
6 covalently functionalized with at least one modifying group, wherein said at least one modifying  
7 group is a water-soluble polymer;  
8         b. incubating said cell under conditions in which said cell internalizes said  
9 modified sugar;  
10        c. after step b, intracellularly contacting said modified sugar with a glycosylated  
11 or non-glycosylated peptide and a glycosyltransferase for which said modified sugar is a  
12 substrate, thereby forming said peptide conjugate.
- 1    **2.**     (Original) The method of claim 1, further comprising, after step b and before step c,  
2 intracellularly contacting said modified sugar with a nucleotide and a nucleotidyl transferase,  
3 thereby forming a modified nucleotide sugar, wherein  
4         said modified sugar in step c is said modified nucleotide sugar.
- 1    **3.**     (Original) The method of claim 1, further comprising isolating said peptide conjugate.
- 1    **4.**     (Original) The method of claim 1, wherein said modified sugar is a modified nucleotide  
2 sugar.
- 1    **5.**     (Original) The method of claim 1, wherein said modified sugar is a modified activated  
2 sugar.